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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/817,054	03/27/2001	Jeffrey Paul Grundvig	20-149	9186
7:	590 07/13/2006	•	EXAM	INER
MANELLI DENISON & SELTER PLLC 2000 M Street, N. W., 7th Floor		PLLC	PHILPOTT, JUSTIN M	
•	C 20036-3307		ART UNIT	PAPER NUMBER

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	09/817,054	GRUNDVIG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Justin M. Philpott	2616	
The MAILING DATE of this communication	on appears on the cover sheet wi	th the correspondence addres	ss
Period for Reply	2501 V 10 057 TO 5VDIDE • 14	ONTLIAN OR THREE (AN) F	
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILII - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by - Any reply received by the Office later than three months after the - earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNION CFR 1.136(a). In no event, however, may a right ion. period will apply and will expire SIX (6) MON y statute, cause the application to become AE	CATION. eply be timely filed ITHS from the mailing date of this commus BANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 2a)⊠ This action is FINAL . 2b)□ 3)□ Since this application is in condition for a closed in accordance with the practice units.	This action is non-final. Ilowance except for formal matt	· · · · ·	erits is
Disposition of Claims	•		
4) ⊠ Claim(s) 1-3,5-13,15 and 16 is/are pending 4a) Of the above claim(s) is/are with 5) ⊠ Claim(s) 6-13,15 and 16 is/are allowed. 6) ⊠ Claim(s) 1-3 and 5 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction.	thdrawn from consideration.		
Application Papers			
9) The specification is objected to by the Exact 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection Replacement drawing sheet(s) including the country. The oath or declaration is objected to by the second se	accepted or b) objected to to the drawing(s) be held in abeyar correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International E * See the attached detailed Office action for	uments have been received. uments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Sta	ge
See the attached detailed Office action for	a list of the certified copies flot	IECEIVEU.	
Attachment(s)	" — .	(DTO 440)	
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-9-3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paner No(s)/Mail Date	48) Paper No(s	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152	2)

DETAILED ACTION

Response to Arguments

- 1. Applicant's arguments filed May 8, 2006 have been fully considered but they are not persuasive.
- First, applicant argues (pages 5-6) that Kojima does not teach data frames include a sync 2. word "as transmitted" as recited in applicant's claims 1-3 and 5. However, as indicated in the previous office action, Kojima does in fact teach this broad claim limitation. Specifically, while applicant focuses the argument on a distinction between "detected" and "transmitted" (in applicant's remarks at page 6) Kojima teaches applicant's claim limitations in FIG. 4 and col. 6, line 40 – col. 7, line 62. More specifically, Kojima teaches "FIG. 4 is an explanatory view of the signal format supplied from the transmitting station". Accordingly, the signal shown in FIG. 4 is inherently transmitted by the transmitting station. Turning to FIG. 4, Kojima clearly teaches "SYNCHRONOUS WORDS" SWA, SWV and SWM are included within the aforementioned signal in at least two adjacent time slot based data frames, described in the specification as video, audio and other media (col. 6, line 40 – col. 7, line 62). Kojima also teaches "less than all" of the frames include a synchronous word, and particularly at least two adjacent frames do not include a synchronous word, by clearly providing portion "PA" that does not include a synchronous word within the frames labeled "CCR" and "CI". Accordingly, Kojima teaches the limitations of applicant's claims 1-3 and 5. Thus, applicant's argument is not persuasive.
- 3. Second, applicant argues (page 6) that Kojima does not teach the newly added claim limitation of the sync word being located "at the beginning of said time slot based data frames".

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However, this argument is moot in view of the new rejection in the following office action. Specifically, shifting the location of a synchronous word in data frames from a middle portion to a beginning portion would have been obvious to one of ordinary skill in the art since it is generally considered to be within the ordinary skill in the art to shift the location of parts absent a showing of unexpected results. In re Japikse, 86 USPQ 70 (CCPA 1950).

Claim Objections

4. Claim 1 is objected to because of the following informalities: it appears that "including" (claim 1, line 5) should be changed to "include" in order to correct a grammatical error.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-3 and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,886,999 to Kojima et al.

Regarding claim 1, Kojima teaches a system using a data format (e.g., see col. 4, line 38 – col. 12, line 41), comprising: at least one of a transmitter and a receiver to receive a transmitted plurality of time slot based data frames (e.g., SWV/VDT, SWA/ADT, and SWM/MDT, see FIG. 4) (see also col. 6, lines 40-43 regarding transmitting from station 1, and

also see col. 7, lines 50-62 regarding outputting the synchronous words to units 30 and 50 via controllers 17c and 18c which is inherently a transmission), wherein less than all but more than one (e.g., audio and other media remain, but video signal SWV/VDT is stopped, see col. 10, lines 31-39; see also col. 6, line 39 – col. 7, line 27 regarding one or more synchronous words are not detected) of the plurality of time slot based data frames, as transmitted (e.g., see col. 7, lines 50-62 regarding outputting the synchronous words without stop signal SPC or the undetected words corresponding to the stop signal; see also col. 6, line 40 – col. 8, line 55), include a sync word (e.g., SWV/VDT comprising sync word SWV, SWA/ADT comprising sync word SWA, and SWM/MDT comprising sync word SWM); wherein at least two adjacent ones of the plurality of time slot based data frames, as transmitted, do not include a sync word (e.g., see col. 6, line 39 – col. 7, line 27 regarding an instance where a plurality of predetermined number of synchronous words are not detected in a predetermined period, and see col. 7, lines 50-62 regarding outputting the synchronous words without stop signal SPC or the undetected words corresponding to the stop signal; see also col. 6, line 40 – col. 8, line 55).

Kojima, however, may not specifically disclose the sync word is at a beginning of all the time slot based data frames. However, it is generally considered to be within the ordinary skill in the art to shift the location of parts absent a showing of unexpected results. Thus, at the time of the invention it would have been obvious to one of ordinary skill in the art to shift the location of the synchronous words from *middle* portions of the time slot based data frames to the *beginning* of the time slot based data frames since it is generally considered to be within the ordinary skill in the art to shift the location of parts absent a showing of unexpected results. The contention of

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obvious choice in design can be overcome if Applicant establishes unexpected results. <u>In re</u> <u>Japikse</u>, 86 USPQ 70 (CCPA 1950).

Regarding claim 2, Kojima teaches the time slot based data frames are TDMA frames (e.g., see col. 1, lines 53-67 regarding TDMA).

Regarding claim 3, Kojima teaches the sync word is included at the beginning of the less than all of the transmitted plurality of time slot based data frames (e.g., see FIG. 4 wherein sync words are included prior to the data).

Regarding claim 5, Kojima teaches the at least two adjacent ones of the plurality of time slot based data frames include data payload in a position containing the sync word in the less than all of the transmitted plurality of time slot based data frames (e.g., see FIG. 4 regarding data in each of the data frames within DT).

Allowable Subject Matter

- 7. Claims 6-13, 15 and 16 are allowed.
- 8. The following is an examiner's statement of reasons for allowance: claims 6-13, 15 and 16 were allowed in a previous office action (mailed April 13, 2005) by Examiner Kenneth N Vanderpuye, and these claims are herein allowed for the same reasons as previously determined.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Conclusion

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Justin M. Philpott whose telephone number is 571.272.3162. The examiner can normally be reached on M-F, 9:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi Pham can be reached on 571.272.3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Justin M. Philpott

CHI PHAM
SUPERVISORY PATENT EXAMINER